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0555602

Waste Site Reclassification Form

<b>Date Submitted:</b> 09/05/03  <b>Originator:</b> R. A. Carlson  <b>Phone:</b> 372-9632	<b>Operable Unit(s):</b> 100-IU-2  <b>Waste Site ID:</b> 600-139  <b>Type of Reclassification Action:</b> Rejected <input type="checkbox"/> Closed Out <input type="checkbox"/> Interim Closed Out <input checked="" type="checkbox"/> No Action <input type="checkbox"/>	<b>Control Number:</b> 2003-41  <b>Lead Agency:</b> EPA
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This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed out, interim closed out, or no action and authorizing backfill of the site, if appropriate. Final removal from the National Priorities List (NPL) of no action, interim closed-out, or closed-out sites will occur at a future date.

**Description of current waste site condition:**

The 600-139 site is located within the 100-IU-2 Operable Unit in the 600 Area of the Hanford Site. The site is the location of an automotive repair shop with surface debris located throughout the site. The contaminated soil and debris was removed from the 600-139 site in May 2003. A sample of the underlying soil was collected and analyzed to verify attainment of the remedial action goals. Results from the sampling activities, laboratory analyses, and evaluation of the 600-139 site data demonstrate that all remedial action objectives and goals for direct exposure, protection of groundwater, and protection of the Columbia River have been met.

**Basis for reclassification:**

The basis for reclassification is described in detail in the *Waste Site Evaluation for 600-139 Auto Repair Shop Calculation Brief* (0600X-CA-V0032, Rev. 1, Bechtel Hanford Inc., Richland, Washington). The calculation brief demonstrates that based on a preponderance of information including previous sample results, a field walkdown in 2003, and site history, the 600-139 Auto Repair Shop site contains no hazardous substance above cleanup criteria specified in the approved Remaining Sites ROD (EPA 1999) and the 100 Area RDR/RAWP (DOE-RL-2002). These results indicate that residual soil concentration support unrestricted future use of shallow zone soil (surface to 15 feet) and contaminant levels remaining in the soil are protective of ground water and the Columbia River. The waste site evaluation summary is attached.

Helen E. Bilson  
DOE-RL Assistant Manager

Julie E. Behn  
Signature

9/9/03  
Date

NA  
Ecology Project Manager

Signature

Date

Laurence E. Gadbois  
EPA Project Manager

Laurence E. Gadbois  
Signature

9-12-03  
Date

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EDMC

## WASTE SITE EVALUATION FOR 600-139 AUTOMOTIVE REPAIR SHOP

### EXECUTIVE SUMMARY

The 600-139 site is located within the 100-IU-2 Operable Unit in the 600 Area of the Hanford Site in southeastern Washington State. In April 2003, a field walkdown was conducted to finalize contaminants of potential concern, identify sample locations, and identify sample types for development of a sampling design. A focused design was selected consisting of sample collection at a judgmental location to support waste characterization and determine underlying soil concentrations (BHI 2003). Results of the sampling event would be used to make decisions about remedial action and/or reclassification of the site in accordance with the TPA-MP-14 (DOE-RL 1998) process.

A remedial action activity was implemented to remove identified waste material and debris from the site for subsequent disposal at the Environmental Restoration Disposal Facility. The maximum detected results and a composite sample of underlying soil at the location suspected of having the greatest potential for residual contamination, were used to support site reclassification. A summary of the cleanup evaluation for the underlying soil results against the applicable remedial action goals is presented in Table ES-1.

**Table ES-1. Summary of Cleanup Verification Results for the 600-139 Site.**

Regulatory Requirement	Remedial Action Goals	Results	Goals Attained?
Direct Exposure	Attain individual RAGs.	Maximum detected results for all COPCs are below the RAGs.	Yes
Risk	Hazard quotient of <1 for all individual noncarcinogens.	Risk values not calculated because maximum detected results were less than site background.	Yes
	Cumulative hazard quotient of <1 for noncarcinogens.	Risk value not calculated because maximum detected results were less than site background.	
	Excess cancer risk of <1 x 10 <sup>-6</sup> for individual carcinogens.	Risk values not calculated because maximum detected results were less than site background.	
	Cumulative excess cancer risk of <1 x 10 <sup>-5</sup> for carcinogens.	Risk value not calculated because maximum detected results were less than site background.	
Groundwater/ River Protection	Attain individual groundwater and river cleanup requirements.	Maximum detected results for all COPCs are below groundwater and river RAGs.	Yes

COPC = contaminant of potential concern

RAG = remedial action goal

In accordance with this evaluation, the cleanup verification results from samples of underlying soil support the interim closure of the 600-139 site. Residual material at the site achieves the remedial action objectives and the corresponding remedial action goals established in the *Remedial Design Report/Remedial Action Work Plan for the 100 Area* (DOE-RL 2002), implemented for the *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 100-CW-3 Operable Units* (EPA 1999). Residual soil concentrations support unrestricted future use of shallow zone soil (i.e., surface to 4.5 m [15 ft]) and contaminant levels remaining in the soil are protective of groundwater and the Columbia River.

## WASTE SITE EVALUATION FOR 600-139 AUTOMOTIVE REPAIR SHOP

### STATEMENT OF PROTECTIVENESS

The *Waste Site Evaluation for 600-139 Auto Repair Shop* (BHI 2003) demonstrates the 600-139 site meets the remedial action objectives established in the *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units* (EPA 1999). The remaining soils at these sites have been sampled and analyzed. The results of this evaluation demonstrate that the materials remaining at the 600-139 site do not exceed the remedial action goals (RAGs). These results also show that residual concentrations will support future land uses that can be represented (or bounded) by a rural-residential scenario, and that residual concentrations support unrestricted future use of shallow zone soil (i.e., surface to 4.5 m [15 ft]) and contaminant levels remaining in the soil are protective of groundwater and the Columbia River.

### GENERAL SITE INFORMATION AND BACKGROUND

The 600-139 site is located within the 100-IU-2 Operable Unit in the 600 Area of the Hanford Site in southeastern Washington State. The site is a location of an automotive repair shop with surface debris located throughout the site. Additional site information is provided in Appendix A.

### CHARACTERIZATION ACTIVITIES

#### Site Walkdown

A site walkdown was performed on April 21, 2003, with the lead regulatory agency and project team. The objective of the walkdown was to gather the information necessary to finalize sampling requirements specified in BHI (2003), and provide information to allow for potential reclassification of this waste site to "no action" or "limited action with interim closeout." The objectives of the walkdown included the following:

- Locate and evaluate surface debris and anomalies that would require removal to meet reclassification of the waste site
- Confirm the waste site boundary
- Determine debris/anomalies requiring sampling for waste designation
- Determine areas for sampling of underlying soil after surface debris/anomalies are removed
- Estimate the quantity/type of surface debris/anomalies to support planning for waste disposition.

During the walkdown, areas of debris/anomalies requiring removal and/or sampling were located and marked with flags. Information collected during the walkdown is further documented in the 600-139 site calculation brief (BHI 2003), which includes site photos and references to field logbook entries.

## Waste Removal

A remedial action activity was implemented to remove contaminated soil and associated debris identified during the site walkdown (pin flag P11). The material was removed to a depth of 0.41 m (1.3 ft), sampled to support waste designation, collected and packaged in accordance with waste management plans, and removed from the site for subsequent disposal at the Environmental Restoration Disposal Facility or other approved facilities.

## Cleanup Verification

A focused sampling design was selected to characterize the underlying soil at the location suspected of having the greatest potential for residual contamination (BHI 2003). Results from the underlying soil would be used to represent residual contaminant concentrations for cleanup verification. The cleanup verification sample summary is presented in Table 1. The cleanup verification sample locations are identified in Figure 1.

**Table 1. Sample Summary Table for the 600-139 Site.**

Area (Sample Location)	Sample Media	Sample #	Depth*	Sample Analysis
<i>Cleanup Verification Samples</i>				
Pink Flag # 11 (P11)	Subsurface soil - cleanup verification	J00NK9/ J00NL3	12 to 16 in.	SVOAs, PCBs, ICP metals, mercury, pesticides, herbicides, cyanide, sulfide, TPH, and asbestos.
<i>Quality Control Samples</i>				
Duplicate	Surface soil - waste characterization	J00NK8/ J00NL2	8 to 10 in.	SVOAs, PCBs, ICP metals, mercury, pesticides, herbicides, cyanide, sulfide, and asbestos.
Equipment blank	Silica sand	J00NLO	NA	SVOAs, ICP metals, and mercury.

\*Field estimates were measured in inches below ground surface (bgs).

ICP = inductively coupled plasma

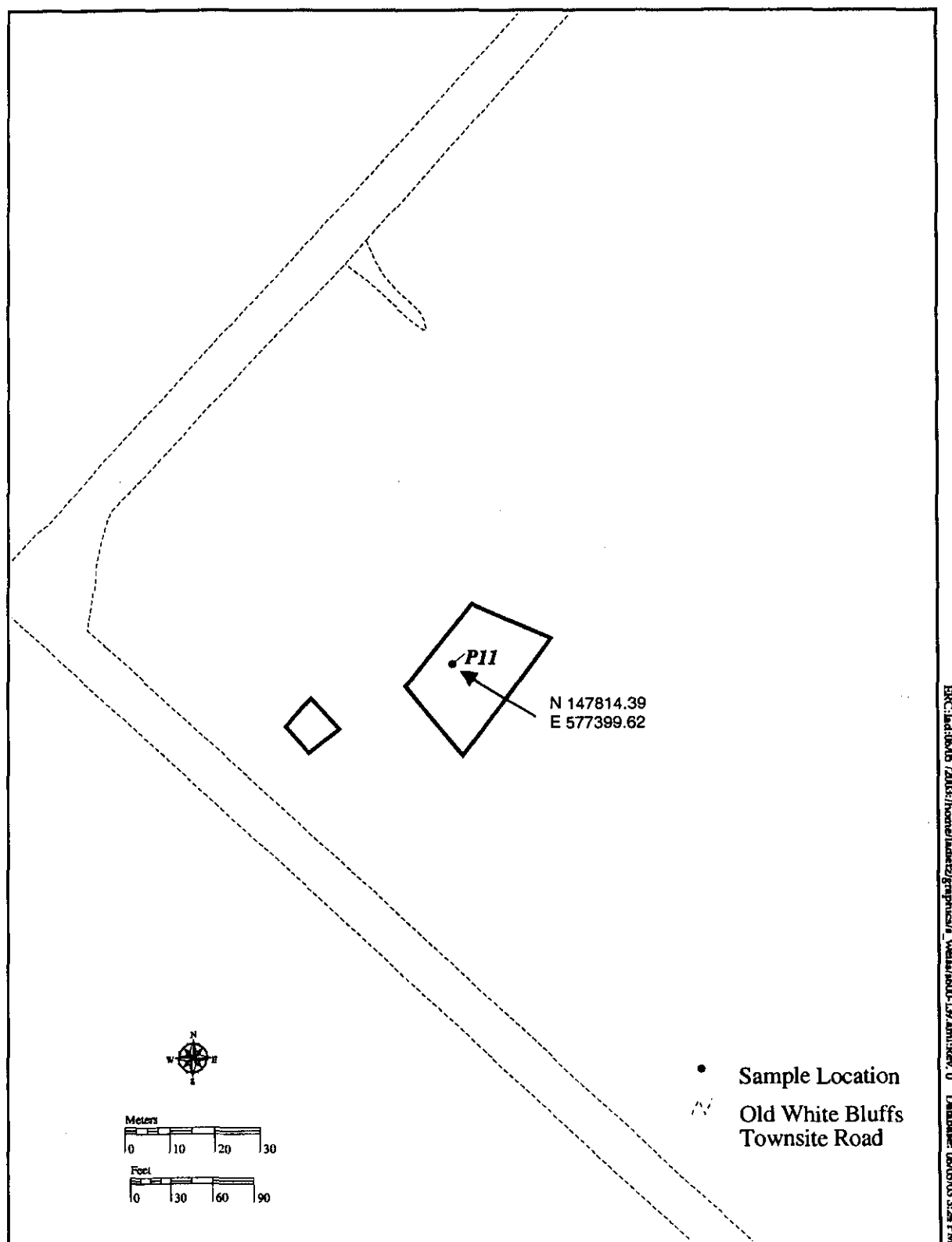
NA = not applicable

PCB = polychlorinated biphenyl

SVOA = semivolatile organic analysis

TPH = total petroleum hydrocarbons

**Figure 1. 600-139 Site Boundary and Underlying Soil Sample Locations.**



## CLEANUP VERIFICATION SAMPLE RESULTS

The cleanup verification samples were analyzed by offsite contract laboratories using approved U.S. Environmental Protection Agency analytical methods. A data quality assessment was performed to compare the sampling approach and resulting analytical data with the sampling and data quality requirements specified by the project objectives and performance specifications. The data quality assessment determined that the data are of the right type, quality, and quantity to support site verification decisions within specified error tolerances. The cleanup verification sample results are stored in the Hanford Environmental Information System and are summarized in the data summary tables (Appendix B).

## BASIS FOR INTERIM CLOSURE

Process knowledge and field observations were used to collect cleanup verification samples of underlying soil at locations of the 600-139 site with the greatest potential for residual contamination. In accordance with this focused sampling design and the *Washington Administrative Code* (WAC) 173-340-740(7)(d)(iii), direct comparison of the cleanup verification sample results with the RAGs is an appropriate method to evaluate compliance with cleanup objectives for the 600-139 site. Table 2 compares the maximum detected results for contaminants of potential concern identified for the 600-139 site (BHI 2003) with cleanup levels identified in the *Remedial Design Report/Remedial Action Work Plan for the 100 Area* (RDR/RAWP) (DOE-RL 2002). Constituents that were not detected above the practical quantitation limit are excluded from Table 2. Complete sample results are provided in Appendix B.

**Table 2. Comparison of Maximum Values Identified for the 600-139 Site to Action Levels.**

COPC	Maximum Result (mg/kg)	Remedial Action Goals (mg/kg)			Does the Maximum Result Exceed Lookup Value?
		Direct Exposure	Groundwater Protection	River Protection	
Nonradionuclides(mg/kg)					
Arsenic	2.4 (<BG)	20 <sup>a</sup>	20 <sup>a</sup>	20 <sup>a</sup>	No
Barium	72 (<BG)	5,600	132	224	No
Chromium	12 (<BG)	80,000	18.5 <sup>b</sup>	18.5 <sup>b</sup>	No
Lead	4.4 (<BG)	353 <sup>c</sup>	10.2 <sup>b</sup>	10.2 <sup>b</sup>	No
Sulfide	35.8	<sup>d</sup>	<sup>d</sup>	<sup>d</sup>	No
Petroleum hydrocarbons	7.9	<sup>d</sup>	200	200	No

<sup>a</sup>The statewide arsenic background value of 20 mg/kg (WAC 173-340-740, Table 2) has been adopted for the 100 Area.

<sup>b</sup>Where cleanup levels are less than background or required detection limits, cleanup levels default to background or required detection limits (WAC 173-340-745[6][c]).

<sup>c</sup>*Model Toxics Control Act* Method B value for lead is not available. Use the U.S. Environmental Protection Agency's Integrated Exposure Uptake Biokinetic Model Value for Lead in Children (EPA 1994).

<sup>d</sup>A lookup value is not available for this constituent.

BG = background (Hanford Site)

COPC = contaminant of potential concern

Nonradionuclide risk requirements include a site hazard quotient of less than 1.0, an individual contaminant carcinogenic risk of less than  $1 \times 10^{-6}$ , and a cumulative carcinogenic risk of less than  $1 \times 10^{-5}$ . For the 600-139 site, these risk values were not calculated because all of the nonradionuclides associated with the site were either not detected, were detected in soil at concentrations below Hanford Site or Washington State background, or were noncarcinogenic. Based on the conservative nonradionuclide groundwater and river protection RAGs shown in Table 2, the residual concentrations of the nonradionuclide contaminants are protective of groundwater and the Columbia River.

An additional requirement for nonradionuclides is the WAC 173-340-740(7)(e) three-part test, which is a requirement for statistically based soil cleanup assessments. Demonstration of the three-part test is not an explicit necessity for the 600-139 site where a focused sampling method was used and maximum contaminant concentrations are compared against cleanup criteria. Using maximum values for comparison ensures compliance with the three-part test because all of the confirmation sample concentrations will be less than the cleanup criteria. Therefore, the 600-139 site meets the three-part test criteria (see DOE-RL 2002 or WAC 173-340 for specific criteria).

## SUMMARY FOR INTERIM CLOSURE

The interim closure decision for the 600-139 site is supported based on reviews of site history, a site walkdown, and characterization results as summarized below.

1. Surface debris/anomalies were identified in localized areas that represented a small fraction of the 600-139 site area.
2. Surface debris/anomalies identified in a site walkdown were collected, packaged for subsequent disposal, and removed from the site.
3. Maximum detected results from the underlying soil sample collected at the location suspected of having the greatest potential for residual contamination levels were shown to meet the cleanup objectives for direct exposure, groundwater protection, and river protection.

## REFERENCES

- BHI, 2003, *Waste Site Evaluation for 600-139 Auto Repair Shop*, Calculation No. 0600X-CA-V0032, Rev. 1, Bechtel Hanford, Inc., Richland, Washington.
- DOE-RL, 1998, *Tri-Party Agreement Handbook Management Procedures*, RL-TPA-90-0001, Guideline Number TPA-MP-14, "Maintenance of the Waste Information Data System (WIDS)," U.S. Department of Energy, Richland Operations Office, Richland, Washington.



DOE-RL, 2002, *Remedial Design Report/Remedial Action Work Plan for the 100 Area*, DOE/RL-96-17, Rev. 4, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

EPA, 1994, *Guidance Manual for the Integrated Exposure Uptake Biokinetic Model for Lead in Children*, EPA/540/R-93/081, Publication No. 9285.7, U.S. Environmental Protection Agency, Washington, D.C.

EPA, 1999, *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.

WAC 173-340, "Model Toxics Control Act--Cleanup," *Washington Administrative Code*, as amended.

**APPENDIX A**  
**WASTE INFORMATION DATA SYSTEM**  
**GENERAL SUMMARY REPORT**  
**(4 Pages)**

## Waste Information Data General Summary Report

8/27/2003

Site Code: 600-139

Site Classification: Accepted

Page 1

Site Names: 600-139, White Bluffs Automotive Repair Shop and Associated Waste Sites, Automotive Repair Shop

Site Type: Dumping Area

Start Date:

Status: Inactive

End Date:

Operable Unit: 100-IU-2

Coordinates:

Hanford Area: 600

(E) 577386.563

(N) 147806.609

Washington State Plane

**Site Description:** The site is an area thought to be associated with an automotive repair shop. Surface debris included numerous battery caps, engine gaskets, dumped waste oils, and fragments of tail light lenses. The surface debris was removed in May 2003.

**Location Description:** The site is located west of Route 2 North and north of Federal Avenue. It is approximately 700 meters (2297 feet) southwest of the intersection of Route 2 North and Federal Avenue.

**Cleanup Activities:** In May 2003, surface debris was removed and confirmatory sampling was done.

**References:**

1. R. W. Carpenter, 12/95, White Bluffs, 100-IU-2 Operable Unit Technical Baseline Report, BHI-00448, Rev 0.
2. TM Blakley, 6/12/03, Waste Site Evaluation for 600-139, Automotive Repair Shop, 0600X-CA-V0032, Rev 1.

### Waste Information:

Type: Oil

Category: Hazardous/Dangerous

Physical State: Solid and liquid

**Description:** The waste includes battery caps, engine gaskets, fragments of tail light lenses, and dumped waste oils.

**References:**

1. R. W. Carpenter, 12/95, White Bluffs, 100-IU-2 Operable Unit Technical Baseline Report, BHI-00448, Rev 0.

### Dimensions:

Length: 30.00 Meters 98.43 Feet

Width: 20.00 Meters 65.62 Feet

**References:**

1. R. W. Carpenter, 12/95, White Bluffs, 100-IU-2 Operable Unit Technical Baseline Report, BHI-00448, Rev 0.

### Field Work:

Type: Analytical Sampling

Begin Date: 05/15/2003

End Date: 05/15/2003 Data Repository: HEIS

Purpose: Confirmatory Sampling

**Comment:** Soil samples were collected from non-vegetated areas in the dump area along with a sample of gasket material. Sample aliquots were 7.6 centimeters (10 inches) deep. The samples were analyzed for volatile organics if any were detected with field equipment. The samples were analyzed for semi-volatile organics, PCB's, ICP metals, mercury, pesticides, cyanide, sulfide, TPH and asbestos. Sample numbers J00NL4 and J00NL5 were used for gasket material. Results for sample numbers

**References:** 1. TM Blakley, 6/12/03, Waste Site Evaluation for 600-139, Automotive Repair Shop, 0600X-CA-V0032, Rev 1.  
J00NK7, J00NK8, J00NK9, J00NL0, J00NL1, J00NL2 and J00NL3 have been added  
**Type:** Geophysical Survey

**Begin Date:** 04/01/2003 **Field Crew:** Bergstrom, Mitchell

**End Date:** 04/01/2003

**Purpose:** Investigation

**Comment:** Electro Magnetic surveys found an area characteristic of a slab-like feature in the southeast corner of the site. This is the area documented to be the repair shop location. The slab could be a foundation. Surface debris noted included engine and car parts.

**References:** 1. Tom Mitchell, Kevin Bergstrom, 4/27/03, Geophysical Site Investigation Forms for April 2003.

**Type:** GPS Surveys

**Begin Date:** 08/07/1995 **Field Crew:** K.A. Prosser, R.P. Prosser, Roger Carpenter

**End Date:** 10/04/1995 **Data Repository:** HGIS

**Purpose:** Mapping

**Job Number:** 23

**Type:** Post-Processed Kinematic

**References:**

**Type:** Site Walkdown

**Begin Date:** 04/21/2003 **Field Crew:** BHI project team and EPA

**End Date:** 04/21/2003

**Purpose:** Site Assessment

**Comment:** The objectives of the walkdown were to evaluate the site conditions and determine the sampling requirements. A decision was made to collect a representative sample of the gasket material and soil samples.

**References:** 1. TM Blakley, 6/12/03, Waste Site Evaluation for 600-139, Automotive Repair Shop, 0600X-CA-V0032, Rev 1.

**Type:** Site Walkdown

**Begin Date:** 05/05/1999 **Field Crew:** Hayward, Prosser, Webb

**End Date:** 05/05/1999

**Purpose:** RARA Walkdown

**Comment:** There is not much left to show the where the repair shop was located.

**Site Cover:** Moderate Vegetation

**Site Accessible:** Yes **Site Found:** Yes

**Soil Discoloration:** No **Debris Visible:** Yes

**Vegetation Type:** Rabbitbrush

**References:** 1. C. R. Webb, Field Logbook assigned to Christine Webb, EL-1255 and EL-1255-1.

Site Code: 600-139

Site Classification: Accepted

Page 3

**Regulatory  
Information:**

**Programmatic**

DOE Program: EM-40 Confirmed By Program: Yes  
DOE Division: ERD - Environmental Restoration Division  
Responsible Contractor/Subcontractor: BHL Bechtel Hanford, Inc.

**Site Evaluation**

Solid Waste Management Unit: Yes  
TPA Waste Management Unit Type: Waste Disposal Unit

**Permitting**

RCRA Part A Permit: No Closure Plan: No  
RCRA Part B Permit: No TSD Number:  
RCRA Permit Status:  
  
Septic Permit: No 216/218 Permit: No  
Inert Landfill: No NPDES: No  
Air Operating Permit: No State Waste Discharge Permit: No

Air Operating Permit  
Number(s):

**Tri-Party Agreement**

Lead Regulatory Agency: EPA  
Unit Category: CERCLA Past Practice (CPP)  
TPA Appendix: C

**Remediation and**

Decision Document: Interim Action Record of Decision, 100 Area Remaining Sites (1999)  
Decision Document Status: Final  
Remediation Design Group: Group 5  
Closure Document:  
Closure Type:

Post Closure Requirements:

Residual Waste:

**Images:**

Date Taken: 5/5/1999  
Pathname: \\apwids01\widsimg\600\1899\1899\_01.JPG  
Description: Photo shows some of the debris in the area.  
Date Taken: 5/5/1999  
Pathname: \\apwids01\widsimg\600\1899\1899\_02.JPG

**Site Code:** 600-139

**Site Classification:** Accepted

**Page** 4

**Description:** Photo shows a hole found near the debris field.

**Date Taken:** 5/5/1999

**Pathname:** \\apwids01\widsimg\600\1899\1899\_03.JPG

**Description:** Photo shows the Automotive Repair Shop area. There is not much left to distinguish it from the rest of the desert.

**Date Taken:** 5/5/1999

**Pathname:** \\apwids01\widsimg\600\1899\1899\_04.JPG

**Description:** Photo shows a large depression that is roughly square shaped and located adjacent to the Automotive Repair Shop site.

**APPENDIX B**  
**600-139 DATA SUMMARY TABLES**  
**(3 Pages)**

**600-139 Nonrad Data**

Sample Area	HEIS Number	Sample Date	Arsenic			Barium			Cadmium			Chromium			Cyanide			Lead		
			mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
Subsurface Soil	J00NK9	5/15/03	2.40E+00		3.10E-01	7.20E+01		2.00E-02	4.00E-02	U	4.00E-02	1.20E+01	J	9.00E-02	4.10E-01	U	4.10E-01	4.40E+00		2.20E-01

Sample Area	HEIS Number	Sample Date	Mercury			Selenium			Silver			Sulfide			Total Petroleum Hydrocarbons		
			mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
Subsurface Soil	J00NK9	5/15/03	2.00E-02		2.00E-02	4.00E-01	U	4.00E-01	1.10E-01	U	1.10E-01	3.58E+01	J	2.60E+01	7.90E+00		3.50E+00

**600-139 Asbestos Data (Sample Date 5/15/03)**

Sample Area	HEIS Number	Asbestos
Subsurface Soil Sample	J00NL3	ND

ND = not detected

**BOLD** indicates qualifier added during validation.



## 600-139 SVOA Data

Constituent	J00NK9 Subsurface Soil Sample Date 5/15/03		
	$\mu\text{g/kg}$	Q	PQL
1,2,4-Trichlorobenzene	3.50E+03	U	3.50E+03
1,2-Dichlorobenzene	3.50E+03	U	3.50E+03
1,3-Dichlorobenzene	3.50E+03	U	3.50E+03
1,4-Dichlorobenzene	3.50E+03	U	3.50E+03
2,4,5-Trichlorophenol	8.80E+03	UJ	8.80E+03
2,4,6-Trichlorophenol	3.50E+03	UJ	3.50E+03
2,4-Dichlorophenol	3.50E+03	U	3.50E+03
2,4-Dimethylphenol	3.50E+03	U	3.50E+03
2,4-Dinitrophenol	8.80E+03	UJ	8.80E+03
2,4-Dinitrotoluene	3.50E+03	U	3.50E+03
2,6-Dinitrotoluene	3.50E+03	U	3.50E+03
2-Chloronaphthalene	3.50E+03	U	3.50E+03
2-Chlorophenol	3.50E+03	U	3.50E+03
2-Methylnaphthalene	3.50E+03	U	3.50E+03
2-Methylphenol (cresol, o-)	3.50E+03	U	3.50E+03
2-Nitroaniline	8.80E+03	U	8.80E+03
2-Nitrophenol	3.50E+03	UJ	3.50E+03
3,3'-Dichlorobenzidine	3.50E+03	U	3.50E+03
3-Nitroaniline	8.80E+03	U	8.80E+03
4,6-Dinitro-2-methylphenol	8.80E+03	U	8.80E+03
4-Bromophenylphenyl ether	3.50E+03	U	3.50E+03
4-Chloro-3-methylphenol	3.50E+03	U	3.50E+03
4-Chloroaniline	3.50E+03	U	3.50E+03
4-Chlorophenylphenyl ether	3.50E+03	U	3.50E+03
4-Methylphenol (cresol, p-)	3.50E+03	U	3.50E+03
4-Nitroaniline	8.80E+03	U	8.80E+03
4-Nitrophenol	8.80E+03	UJ	8.80E+03
Acenaphthene	3.50E+03	U	3.50E+03
Acenaphthylene	3.50E+03	U	3.50E+03
Anthracene	3.50E+03	U	3.50E+03
Benzo(a)anthracene	3.50E+03	U	3.50E+03
Benzo(a)pyrene	3.50E+03	U	3.50E+03

BOLD indicates qualifier added during validation.

Constituent	J00NK9 Subsurface Soil Sample Date 5/15/03		
	$\mu\text{g/kg}$	Q	PQL
Benzo(b)fluoranthene	3.50E+03	U	3.50E+03
Benzo(ghi)perylene	3.50E+03	U	3.50E+03
Benzo(k)fluoranthene	3.50E+03	U	3.50E+03
Bis(2-chloro-1-methylethyl)ether	3.50E+03	U	3.50E+03
Bis(2-Chloroethoxy)methane	3.50E+03	U	3.50E+03
Bis(2-chloroethyl) ether	3.50E+03	U	3.50E+03
Bis(2-ethylhexyl) phthalate	3.50E+03	U	3.50E+03
Butylbenzylphthalate	3.50E+03	U	3.50E+03
Carbazole	3.50E+03	U	3.50E+03
Chrysene	3.50E+03	U	3.50E+03
Di-n-butylphthalate	3.50E+03	U	3.50E+03
Di-n-octylphthalate	3.50E+03	U	3.50E+03
Dibenz[a,h]anthracene	3.50E+03	U	3.50E+03
Dibenzofuran	3.50E+03	U	3.50E+03
Diethylphthalate	3.50E+03	U	3.50E+03
Dimethyl phthalate	3.50E+03	U	3.50E+03
Fluoranthene	3.50E+03	U	3.50E+03
Fluorene	3.50E+03	U	3.50E+03
Hexachlorobenzene	3.50E+03	U	3.50E+03
Hexachlorobutadiene	3.50E+03	U	3.50E+03
Hexachlorocyclopentadiene	3.50E+03	U	3.50E+03
Hexachloroethane	3.50E+03	U	3.50E+03
Indeno(1,2,3-cd)pyrene	3.50E+03	U	3.50E+03
Isophorone	3.50E+03	U	3.50E+03
N-Nitroso-di-n-dipropylamine	3.50E+03	U	3.50E+03
N-Nitrosodiphenylamine	3.50E+03	U	3.50E+03
Naphthalene	3.50E+03	U	3.50E+03
Nitrobenzene	3.50E+03	U	3.50E+03
Pentachlorophenol	8.80E+03	UJ	8.80E+03
Phenanthrene	3.50E+03	U	3.50E+03
Phenol	3.50E+03	U	3.50E+03
Pyrene	3.50E+03	U	3.50E+03

600-139 Pesticide and Herbicide Data

Constituent	J00NK9 Subsurface Soil Sample Date 5/15/03		
	$\mu\text{g/kg}$	Q	PQL
<b>Pesticide Data</b>			
Aldrin	8.80E+01	UJ	8.80E+01
Alpha-BHC	8.80E+01	UJ	8.80E+01
alpha-Chlordane	8.80E+01	UJ	8.80E+01
beta-1,2,3,4,5,6-	8.80E+01	UJ	8.80E+01
Delta-BHC	8.80E+01	UJ	8.80E+01
Dichlorodiphenyldichloroethane	1.80E+02	UJ	1.80E+02
Dichlorodiphenyldichloroethylene	1.80E+02	UJ	1.80E+02
Dichlorodiphenyltrichloroethane	1.80E+02	UJ	1.80E+02
Dieldrin	1.80E+02	UJ	1.80E+02
Endosulfan I	8.80E+01	UJ	8.80E+01
Endosulfan II	1.80E+02	UJ	1.80E+02
Endosulfan sulfate	1.80E+02	UJ	1.80E+02
Endrin	1.80E+02	UJ	1.80E+02
Endrin aldehyde	1.80E+02	UJ	1.80E+02
Endrin ketone	1.80E+02	UJ	1.80E+02
Gamma-BHC (Lindane)	8.80E+01	UJ	8.80E+01
gamma-Chlordane	8.80E+01	UJ	8.80E+01
Heptachlor	8.80E+01	UJ	8.80E+01
Heptachlor epoxide	8.80E+01	UJ	8.80E+01
Methoxychlor	8.80E+02	UJ	8.80E+02
Toxaphene	8.80E+03	UJ	8.80E+03
<b>Herbicide Data</b>			
2,4,5-Trichlorophenoxyacetic acid	8.80E+02	UJ	8.80E+02
2,4-Dichlorophenoxyacetic acid	1.80E+03	UJ	1.80E+03
2-(2,4,5-Trichlorophenoxy)propionic	8.80E+02	UJ	8.80E+02
2-secButyl-4,6-dinitrophenol(DNBP)	8.80E+02	UJ	8.80E+02
4-(2,4-Dichlorophenoxy)butanoic acid	8.80E+03	UJ	8.80E+03
Dalapon	8.80E+03	UJ	8.80E+03
Dicamba	3.50E+03	UJ	3.50E+03
Dichloroprop	8.80E+03	UJ	8.80E+03

**BOLD** indicates qualifier added during validation.

600-139 Aroclor (PCB) Data

Constituent	J00NK9 Subsurface Soil Sample Date 5/15/03		
	$\mu\text{g/kg}$	Q	PQL
Aroclor-1016	7.90E+02	UJ	7.90E+02
Aroclor-1221	7.90E+02	UJ	7.90E+02
Aroclor-1232	7.90E+02	UJ	7.90E+02
Aroclor-1242	7.90E+02	UJ	7.90E+02
Aroclor-1248	7.90E+02	UJ	7.90E+02
Aroclor-1254	7.90E+02	UJ	7.90E+02
Aroclor-1260	7.90E+02	UJ	7.90E+02